

AMENDMENT TO CLAIMS

1. (Original) A fuel cell power generating system for generating power by electrochemical reaction of hydrogen with oxygen, comprising:

reforming means for producing a reformed gas containing hydrogen by a steam reforming reaction of a fuel;

first power generating means for generating power by electrochemical reaction of hydrogen or hydrogen and carbon monoxide in said reformed gas with oxygen and supplying waste heat and steam resulting from said power generation to said reforming means;

converting means for converting carbon monoxide in said reformed gas into carbon dioxide and hydrogen by reaction of said carbon monoxide with steam;

oxidizing means for converting carbon monoxide ejected from said converting means into carbon dioxide by oxidation; and

second power generating means for generating power by electrochemical reaction of hydrogen ejected from said oxidizing means with oxygen.

2. (Original) A fuel cell power generating system for generating power by an electrochemical reaction of hydrogen with oxygen, comprising:

reforming means for producing a reformed gas containing hydrogen by a steam reforming reaction of a fuel;

first power generating means for generating power by electrochemical reaction of hydrogen or hydrogen and carbon monoxide in said reformed gas with oxygen and supplying

waste heat and steam resulting from said power generation to said reforming means;

converting means for converting carbon monoxide in said reformed gas into carbon dioxide and hydrogen by reaction of said carbon monoxide with steam; and

second power generating means for generating power by electrochemical reaction of hydrogen ejected from said converting means with oxygen.

3. (Original) A fuel cell power generating system for generating power by an electrochemical reaction of hydrogen with oxygen, comprising:

reforming means for producing a reformed gas containing hydrogen by a steam reforming reaction of a fuel;

first power generating means for generating power by electrochemical reaction of hydrogen or hydrogen and carbon monoxide in said reformed gas with oxygen and supplying waste heat and steam resulting from said power generation to said reforming means;

converting means for converting carbon monoxide in said reformed gas into carbon dioxide and hydrogen by reaction of said carbon monoxide with steam;

separating means for separating hydrogen from an emission of said converting means; and

second power generating means for generating power by electrochemical reaction of the separated hydrogen with oxygen.

4. (Original) A fuel cell power generating system for generating power by an

electrochemical reaction of hydrogen with oxygen, comprising:

reforming means for producing a reformed gas containing hydrogen by a steam reforming reaction of a fuel;

first power generating means for generating power by electrochemical reaction of hydrogen or hydrogen and carbon monoxide in said reformed gas with oxygen and supplying waste heat and an emission containing steam resulting from said power generation to said reforming means;

converting means for converting carbon monoxide in said emission into carbon dioxide and hydrogen by reaction of said carbon monoxide with steam;

oxidizing means for converting carbon monoxide ejected from said converting means into carbon dioxide by oxidation; and

second power generating means for generating power by electrochemical reaction of hydrogen ejected from said oxidizing means with oxygen.

5. (Original) A fuel cell power generating system for generating power by an electrochemical reaction of hydrogen with oxygen, comprising:

reforming means for producing a reformed gas containing hydrogen by a steam reforming reaction of a fuel;

first power generating means for generating power by electrochemical reaction of hydrogen or hydrogen and carbon monoxide in said reformed gas with oxygen and supplying waste heat and an emission containing steam resulting from said power generation to said

reforming means;

converting means for converting carbon monoxide in said emission into carbon dioxide and hydrogen by reaction of said carbon monoxide with steam; and

second power generating means for generating power by electrochemical reaction of hydrogen ejected from said converting means with oxygen.

6. (Original) A fuel cell power generating system for generating power by electrochemical reaction of hydrogen with oxygen, comprising:

reforming means for producing a reformed gas containing hydrogen by a steam reforming reaction of a fuel;

first power generating means for generating power by electrochemical reaction of hydrogen or hydrogen and carbon monoxide in said reformed gas with oxygen and supplying waste heat and an emission containing steam resulting from said power generation to said reforming means;

converting means for converting carbon monoxide in said emission into carbon dioxide and hydrogen by reaction of said carbon monoxide with steam;

separating means for separating hydrogen from an emission of said converting means; and

second power generating means for generating power by electrochemical reaction of the separated hydrogen with oxygen.

7. (Currently Amended) A fuel cell power generating system for generating power by electrochemical reaction of hydrogen with oxygen, comprising:

first power generating means for producing a reformed gas containing hydrogen at an anode by a steam reforming reaction of a fuel and generating power by electrochemical reaction of hydrogen or hydrogen and carbon monoxide in said reformed gas with oxygen, said first power generating means consuming heat required for said steam reforming reaction and recycling an emission containing steam resulting from said power generation to said anode, said heat resulting from said power generation;

converting means for converting carbon monoxide in said emission into carbon dioxide and hydrogen by reaction of said carbon monoxide with steam;

oxidizing means for converting carbon monoxide ejected from said converting means into carbon dioxide by oxidation; and

second power generating means for generating power by electrochemical reaction of hydrogen ejected from said oxidizing means with oxygen.

8. (Currently Amended) A fuel cell power generating system for generating power by an electrochemical reaction of hydrogen with oxygen, comprising:

first power generating means for producing a reformed gas containing hydrogen at an anode by a steam reforming reaction of a fuel and generating power by electrochemical reaction of hydrogen or hydrogen and carbon monoxide in said reformed gas with oxygen, said first power generating means consuming heat required for said steam reforming reaction and recycling

an emission containing steam resulting from said power generation to said anode, said heat resulting from said power generation;

converting means for converting carbon monoxide in said emission into carbon dioxide and hydrogen by reaction of said carbon monoxide with steam; and

second power generating means for generating power by electrochemical reaction of hydrogen ejected from said converting means with oxygen.

9. (Currently Amended) A fuel cell power generating system for generating power by an electrochemical reaction of hydrogen with oxygen, comprising:

first power generating means for producing a reformed gas containing hydrogen at an anode by a steam reforming reaction of a fuel and generating power by electrochemical reaction of hydrogen or hydrogen and carbon monoxide in said reformed gas with oxygen, said first power generating means consuming heat required for said steam reforming reaction and recycling an emission containing steam resulting from said power generation to said anode, said heat resulting from said power generation;

converting means for converting carbon monoxide in said emission into carbon dioxide and hydrogen by reaction of said carbon monoxide with steam;

separating means for separating hydrogen from an emission of said converting means; and

second power generating means for generating power by electrochemical reaction of the separated hydrogen with oxygen.

means for decreasing an amount of air supplied to a first power generating means when said output power of said second power generating means increases, or increasing said amount of said air when said output power of said second power generating means decreases.

14. (Currently Amended) A method of controlling a fuel cell power generating system as claimed in claim 1 ~~any of claims 1 to 9~~, comprising the steps of:

determining whether an output power of a first power generating means increases or decreases; and

decreasing an amount of air supplied to said first power generating means when said output power of said first power generating means increases, or increasing said amount of said air when said output power of said first power generating means decreases.

15. (Currently Amended) A method of controlling a fuel cell power generating system as claimed in claim 1 ~~any of claims 1 to 9~~, comprising the steps of:

determining whether an output power of a second power generating means increases or decreases; and

decreasing an amount of air supplied to a first power generating means when said output power of said second power generating means increases, or increasing said amount of said air when said output power of said second power generating means decreases.

10. (Currently Amended) The fuel cell power generating system as claimed in claim 1 ~~any~~
~~of claims 1 to 9~~, wherein said first power generating means is a solid oxide fuel cell, and said
second power generating means is a polymer electrolyte fuel cell.

11. (Currently Amended) The fuel cell power generating system as claimed in claim 1 ~~any~~
~~of claims 1 to 9~~, wherein said first power generating means is a solid oxide fuel cell, and said
second power generating means is a phosphoric acid fuel cell.

12. (Currently Amended) The fuel cell power generating system as claimed in claim 1 ~~any~~
~~of claims 1 to 9~~, wherein said fuel cell power generating system comprises:

means for determining whether an output power of a first power generating means
increases or decreases; and

means for decreasing an amount of air supplied to said first power generating means
when said output power of said first power generating means increases, or increasing said
amount of said air when said output power of said first power generating means decreases.

13. (Currently Amended) The fuel cell power generating system as claimed in claim 1 ~~any~~
~~of claims 1 to 9~~, wherein said fuel cell power generating system comprises:

means for determining whether an output power of a second power generating means
increases or decreases; and